

Humm BOX

SOIL & WEATHER

SOIL & AIR TEMPERATURE
SOIL MOISTURE

HummBox Soil & Weather is an advanced IoT monitoring solution of soil moisture and temperature. Its low cost, low power and easy scalability allow to address new fields of applications such as precision irrigation for agriculture, green spaces and greenhouses.



Soil **Moisture**



Pluviometer (option)

Anemometer coming soon



Soil & air **Temperature**



Instant measurement

Push-button



Up to

5 years autonomy



Easy install and scalability

Low Capex & Opex



Data on Cloud



Internet connectivity

Reconfiguration on the fly by downlink

 sigfox

 LoRaWAN



Mobile Application or API

URBAN GREEN SPACES

PRECISION IRRIGATION

TRUFFLE CULTURE

GREENHOUSE PERFORMANCE

HUMM BOX

SOIL & WEATHER

Sensors

Soil Moisture (VWC)

- Temperature range: 0; +85°C
- Precision < 2% (0 to 60%)
- Resolution: 1%

Sol & air temperature

- Precision: 1%
- Resolution: 0,1°C
- Output range: -20 to +50°C

Push button

- on-site configuration and instant measurement



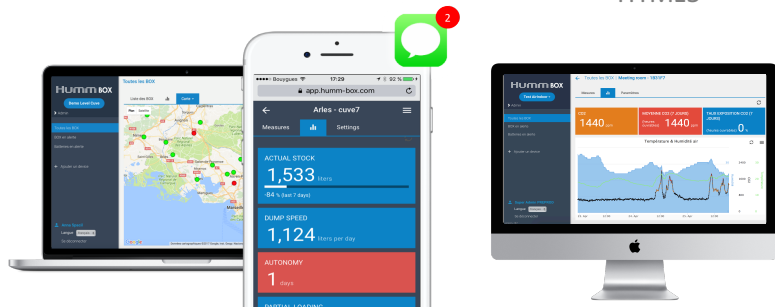
Connected box

- Waterproof box and sensor (IP65)
- LPWAN Sigfox or LoRa
- Internal antenna (optional external)
- Power supply: battery 3.6 V 2450 mAh
- Sensor wire (0,5 m, 1m, 3m)
- Fixing with screws or clamp
- Size: 115 x 65 x 55 mm
- Weight: 200g



Desktop and mobile web App

HTML5



- **Dashboard:** interactive charts with multiple series display, zoomable timeline charts, dataViz
- **KPIs** adapted to the solution and the use case
- **Maps:** multi level alert map
- **Alert:**
 - Threshold management per device
 - Email or SMS alerts
 - External IT interop for fieldwork order generation
- **Interoperability:** multi service connector
- **REST API:** Interoperability with weather forecast (temperature, rainfall and UV index...) to adjust the prediction for watering need

- **Device management:**
 - Device configuration & inventory
 - Over cloud calibration
 - Device issue diagnostic
 - Access right management

